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### NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

06/28/2002

PILLSBURY WINTHROP, LLP P.O. BOX 10500 MCLEAN, VA 22102 EXAMINER
HUYNH, ANDY

ART UNIT CLASS-SUBCLASS
2818 257-079000

DATE MAILED: 06/28/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,336	05/01/2001	Toshiya Uemura	PW 280291	2254
			T36-131965M/KOH	

TITLE OF INVENTION: GROUP III NITRIDE COMPOUND SEMICONDUCTOR LIGHT-EMITTING DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$300	\$1580	09/30/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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7590

06/28/2002

PILLSBURY WINTHROP, LLP P.O. BOX 10500 MCLEAN, VA 22102

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's nam	(Depositor's name)		
(Signatur	(Signature)		
(Dat	(Date)		

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,336	05/01/2001	Toshiya Uemura	PW 280291	2254

TITLE OF INVENTION: GROUP III NITRIDE COMPOUND SEMICONDUCTOR LIGHT-EMITTING DEVICE

PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE APPLN. TYPE SMALL ENTITY ISSUE FEE nonprovisional \$1280 \$1580 09/30/2002 NO **EXAMINER** ART UNIT **CLASS-SUBCLASS** 257-079000 2818 HUYNH, ANDY 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. single firm (having as a member a registered attorney or agent) and the names of up to 2 ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached. Use of a Customer Number is required. registered patent attorneys or agents. If no name

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

is listed, no name will be printed.

Please check the appropriate assignee category or	• • • •	☐ individual ☐ corporation or other private group entity ☐ government				
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):					
☐ Issue Fee	A check in the amou	ant of the fee(s) is enclosed.				
☐ Publication Fee	Payment by credit c	☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # of Copies	The Commissioner Deposit Account Num	☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).				
Commissioner for Patents is requested to apply th	ne Issue Fee and Publication Fee (if any) or to	re-apply any previously paid issue fee to the application identified above.				
(Authorized Signature)	(Date)					
NOTE; The Issue Fee and Publication Fee (if other than the applicant; a registered attorney interest as shown by the records of the United St	or agent; or the assignee or other party in tates Patent and Trademark Office.					
This collection of information is required by 3	7 CFR 1.311. The information is required to	5				

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C 20231.

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,336 05/01/2001		05/01/2001	Toshiya Uemura	PW 280291	2254
909	7590	06/28/2002	·	EXAMIN	ER
PILLSBURY WINTHROP, LLP P.O. BOX 10500 MCLEAN, VA 22102		HUYNH, ANDY			
				ART UNIT	PAPER NUMBER
•			_	2818	
			D	ATE MAILED: 06/28/2002	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

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	Application No.	Applicant(s)	_			
Notice of Allowability	09/845,336	UEMURA ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Andy Huynh	2818				
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308.	lication. If not included will be mailed in due course. T withdrawal from issue at the ir				
<ul> <li>This communication is responsive to <u>NESGOEST TON NE</u></li> <li>The allowed claim(s) is/are <u>1-14</u>.</li> <li>The drawings filed on <u>30 April 2002</u> are accepted by the Extended Acknowledgment is made of a claim for foreign priority und a)  All b)  Some* c)  None of the:</li> </ul>	xaminer.	<u> </u>				
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.					
2.  Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •					
<ol> <li>Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have been received in this r	national stage application from	the			
* Certified copies not received:  5. Acknowledgment is made of a claim for domestic priority ur  (a) The translation of the foreign language provisional a  6. Acknowledgment is made of a claim for domestic priority ur	pplication has been received.	onal application).				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the						
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which gives reas			)F			
<ul> <li>8.  CORRECTED DRAWINGS must be submitted.</li> <li>(a)  including changes required by the Notice of Draftspers</li> <li>1)  hereto or 2)  to Paper No</li> <li>(b)  including changes required by the proposed drawing of the including changes required by the attached Examiner</li> </ul>	correction filed, which has be	en approved by the Examiner.				
Identifying indicia such as the application number (see 37 CFR 1, of each sheet. The drawings should be filed as a separate paper	84(c)) should be written on the drawin with a transmittal letter addressed to t	gs in the top margin (not the bac he Official Draftsperson.	:k)			
9. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MATERIAL m HE DEPOSIT OF BIOLOGICAL MAT	nust be submitted. Note the TERIAL.				
Attachment(s)						
<ul> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statements (PTO-1449), Paper No</li> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4∐ Interview Summa 6⊠ Examiner's Amer	I Patent Application (PTO-152)  Iry (PTO-413), Paper No  Idment/Comment  ment of Reasons for Allowance	•			
	David Nelms					
Supervisory Patent Examiner Technology Center 2800						

Application/Control Number: 09/845,336

Art Unit: 2818

### **DETAILED ACTION**

## Response to Amendment

The declaration under 37 CFR 1.132 filed April 22, 2002 is sufficient to overcome the rejection of claims 1 and 2 based upon Figure 4B of the application applied under 35 U.S.C. 102.

## Reason for allowance

Claims 1-14 are allowed.

The following is an examiner's statement of reason for allowance:

The prior art of record fails to teach or suggest the claimed GROUP III NITRIDE COMPOUND SEMICONDUCTOR LIGHT-EMITTING DEVICE having

a reflection surface disposed so as to be opposite to a side surface of the semiconductor laminate portion, wherein the semiconductor laminate portion and the reflection surface are provided in one and the same chip;

- a groove formed in the laminate; and
- a reflection surface formed on an outer side surface of the groove.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Art Unit: 2818

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shibata (USP: 6,023,076) discloses GROUP III NITRIDE COMPOUND SEMICONDUCTOR LIGHT EMITTING DEVICE HAVING A CURRENT PATH BETWEEN ELECTRODES.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy Huynh whose telephone number is (703) 305-0089. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (703) 308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

David Nelms
Supervisory Patent Examiner
Technology Center 2800

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06/13/02